



Awardee Symposium

May 17-18, 2016

NIEHS Building 101, Rodbell Auditorium · Research Triangle Park, N.C.

AGENDA

Tuesday, May 17, 2016—

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8:00 a.m.	Registration
8:30 a.m.	Welcome Linda Birnbaum, Director, National Institute of Environmental Health Sciences (NIEHS)
8:40 a.m.	NIEHS 101: Introduction to the National Institute of Environmental Health Sciences Gwen Collman, Director, Division of Extramural Research and Training, NIEHS
9:00 a.m.	SESSION ONE: Moderator, Fred Tyson, Genes, Environment, and Health Branch, NIEHS
9:05 a.m.	Genetic and Developmental Susceptibility to Mitochondrial Toxicity Joel Meyer, Duke University
9:25 a.m.	Role of DNA Methyltransferases in Toxicant-induced Alterations in DNA Methylation Neelakanteswar Aluru, Woods Hole Oceanographic Institution
9:40 a.m.	Protecting Children Around the Globe From the Harms of Toxic Metals Rebecca Fry, University of North Carolina at Chapel Hill
10:00 a.m.	The Impact of Arsenic on the Gut Microbiome: From 16S Sequencing to Functional Characterization Kun Lu, University of Georgia
10:15 a.m.	Break
10:45 a.m.	Pathogenic Alterations of Manganese Neurobiology and Neurotoxicity in Huntington's Disease Aaron Bowman, Vanderbilt University
11:05 a.m.	The Mechanism Underlying Epigenetic Effects of Exposure to Hydrogen Sulfide Dana Miller, University of Washington
11:25 a.m.	Discussion
11:45 a.m.	Lunch (Executive Conference Room)
1:00 p.m.	SESSION TWO: Moderator, Janice Allen, Scientific Review Branch, NIEHS
1:05 p.m.	Role of Autophagy Pathways in UVA-induced Skin Cancer Yu-Ying He, University of Chicago
1:25 p.m.	The Role of Nrf2 in Bisphenol-induced NAFLD Angela Slitt, University of Rhode Island
1:45 p.m.	The Role of Nrf2 in Immune Cell Polarization and Allergy Cheryl Rockwell, Michigan State University

A Flame Retardant Story: Bridging Science With Policy

Heather Stapleton, Duke University

Discussion

2:00 p.m.

2:20 p.m.

2:40 p.m. Break



2:55 p.m.	SESSION THREE: Moderator, Patrick Mastin, Deputy Director, Division of Extramural Research and Training, NIEHS
3:00 p.m.	Investigating Aryl Hydrocarbon Receptor-Cofactor Interactions That Mediate Toxicity Daniel Gorelick, University of Alabama at Birmingham
3:15 p.m.	Pattern Recognition Receptors Mediate the Lung Injury-Bone Loss Inflammatory Axis to Organic Dust Exposure(s) Jill Poole, University of Nebraska Medical Center
3:30 p.m.	Role of Bio-coronas in the Enzymatic Oxidation of Single-walled Carbon Nanotubes Alexander Star, University of Pittsburgh
3:50 p.m.	Integrative Nanotoxicology: Linking Rapid Assays and Informatics to Understand Nanomaterial-Biological Interactions Stacey Harper, Oregon State University
4:10 p.m.	Maternal Nanomaterial Inhalation During Gestation: Fetal Microvascular Consequences and Transcriptomic Dysregulations Timothy Nurkiewicz, West Virginia University School of Medicine
4:30 p.m.	Discussion
5:00 p.m.	Adjourn
	Wednesday, May 18, 2016
8:00 a.m.	Registration
8:30 a.m.	SESSION FOUR: Moderator, Janice Allen, Scientific Review Branch, NIEHS
8:35 a.m.	Developmental Exposure to DDT Impairs Energy Expenditure Leading to Insulin Resistance Michele La Merrill, University of California, Davis
8:50 a.m.	Periconceptional Biomonitoring Christina Porucznik, University of Utah School of Medicine
9:10 a.m.	Utilizing Mouse Genetic Diversity to Identify Mechanisms of Environmentally-induced Airway Disease Samir Kelada, University of North Carolina at Chapel Hill
9:25 a.m.	Discussion
9:45 a.m.	Break
10:05 a.m.	SESSION FIVE: Moderator, Jonathan Hollander, Genes, Environment, and Health Branch, NIEHS
10:10 a.m.	Does Arsenic Increase Risk of Neural Tube Defects Among a Highly Exposed Population Maitreyi Mazumdar, Harvard Medical School
10:25 a.m.	Neurotoxicity of Airborne Particles in the Setting of Stroke and Cerebral Hypoperfusion William Mack, University of Southern California
10:40 a.m.	Hereditary Parkinsonism Due to Loss of Function Mutations in a Manganese Efflux Transporter Somshuvra Mukhopadhyay, University of Texas at Austin
10:55 a.m.	Exposure to Welding Fumes in a Local Cohort: A Longitudinal Neuroimaging Study Ulrike Dydak, Purdue University
11:15 a.m.	Developmental Pesticide Exposure Causes Long-term Decreases in Sodium Channels and Glutamate Release in the Hippocampus Jason Richardson, Northeast Ohio Medical University
11:35 a.m.	Discussion
12:05 p.m.	Closing Remarks, Carol Shreffler, Exposure, Response, and Technology Branch, NIEHS

12:15 p.m. Adjourn